

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Dr. Klaus BARTSCH
U.S. Serial No. : To be assigned
Filing Date : Herewith
Title of Invention : PROCESS FOR THE PREPARATION OF L-
PHOSPHINOTHRICIN BY ENZYMATIC
TRANSAMINATION WITH ASPARTATE

745 Fifth Avenue
New York, NY 10151

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Date of Deposit: October 26, 2001

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(Signature of person mailing paper or fee)

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is a copy of the following references for this application:

1. United States Patent No. 5,221,737 dated June 22, 1993;
2. United States Patent No. 4,826,766 dated May 2, 1989;
3. International Patent No. WO 98/53088 dated November 26, 1998;

4. European Patent No. 477,902 dated April 1, 1992;
5. European Patent No. 249,188 A2 dated December 16, 1987;
6. European Patent No. 249,188 A3 dated January 25, 1989;
7. European Patent No. 135,846 dated April 3, 1985;
8. European Patent No. 344,683 dated December 6, 1989;
9. European Patent No. 349,965 dated January 10, 1990;
10. European Patent No. 248,357 A2 dated December 9, 1987;
11. European Patent No. 248,357 B1 dated July 28, 1993;
12. German Patent No. 3750523 dated February 2, 1995;
13. German Patent No. 2717440 dated December 1, 1777;
14. German Patent No. 2856260 dated July 5, 1779;
15. Bartsch, et al., "Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from *Bacillus stearothermophilus*, cloning of the corresponding gene, *aspC*, and application in a coupled transaminase process," Appl. Environ. Microbiol. Oct. 1996, Vol. 62, No. 10, pp. 3794-9;
16. Fotheringham, et al., "Biocatalytic production of unnatural amino acids, mono esters and *N*-protected derivatives," Chimica Oggi/Chemistry Today, Sept./Oct. 1997, pp. 33-37;
17. Taylor, et al., "Novel biosynthetic approaches to the production of unnatural amino acids using transaminases," Tibtech, Oct. 1998, Vol. 16, pp. 412-418.

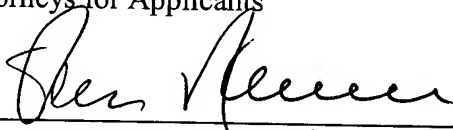
REMARKS

Entry of this Information Disclosure Statement and an early examination on the merits are respectfully solicited.

Please charge any additional fees to Deposit Account No. 50-0320.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

By 

William F. Lawrence
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Tel. (212) 588-0800

WFL/ yrp
Encs.

Based on Form PTO-1449 (3/90)				ATTY. DOCKET NO. <p style="text-align: center;">514413-3899</p>		SERIAL NO. <p style="text-align: center;">-</p>		
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT <p style="text-align: center;">Dr. Klaus BARTSCH</p>				
				FILING DATE <p style="text-align: center;">Herewith</p>		GROUP 		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRI ATE	
	AA	5,221,737	06/22/93	Bartsch et al				
	AB	4,826,766	05/02/89	Rozzell				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATI ON	
							YES	NO
	AC	98/53088	11/26/98	WIPO				
	AD	477,902	4/1/92	Europe				
	AE	249,188 A2	12/16/87	Europe				
	AF	249,188 A3	1/25/89	Europe				
	AG	135,846	04/3/85	Europe				
	AH	344,683	12/6/89	Europe				
	AI	349,965	01/10/90	Europe				
	AJ	248,357 A2	12/9/87	Europe				
	AK	248,357 B1	07/28/93	Europe				
	AL	3750523	2/2/95	Germany				
EXAMINER				DATE CONSIDERED				
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10/018331

JC13 Rec'd PCT/PTO 26 OCT 2001

Sheet 2 of 2

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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Dr. Klaus BARTSCH			
				FILING DATE Herewith		GROUP	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATI ON
	AM	2717440	12/1/77	Germany			YES NO
	AN	2856260	7/5/79	Germany			YES NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Bartsch, et al., "Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from <i>Bacillus stearothermophilus</i> , cloning of the corresponding gene, <i>aspC</i> , and application in a coupled transaminase process," Appl. Environ. Microbiol., Oct. 1996, Vol. 62 No. 10 pp. 3794-9.					
	AP	Fotheringham, et al., "Biocatalytic production of unnatural amino acids, mono esters and N-protected derivatives," Chimica Oggi/Chemistry Today. Sept./Oct. 1997, pp. 33-37.					
	AQ	Taylor, et al., "Novel biosynthetic approaches to the production of unnatural amino acids using transaminases," Tibtech, Oct. 1998, Vol. 16, pp. 412-418.					
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